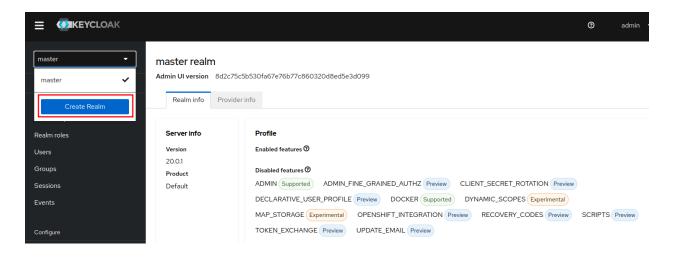
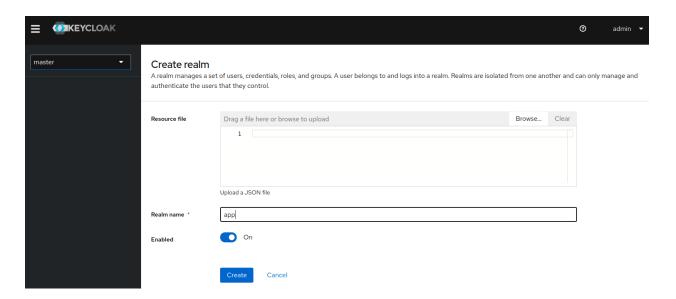
Create a new realm, client and users (Keycloak version 20)

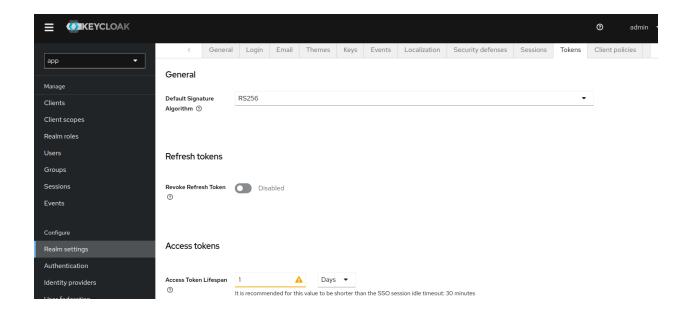
1) Enter inside the Keycloak admin console (http://localhost:8080/admin). The default username and password is **admin**. Move the mouse over **Master** and click in the Create realm button.



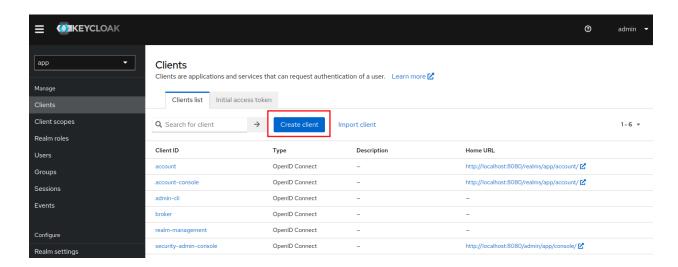
2) Fill the name of the realm with app and click the Create button.



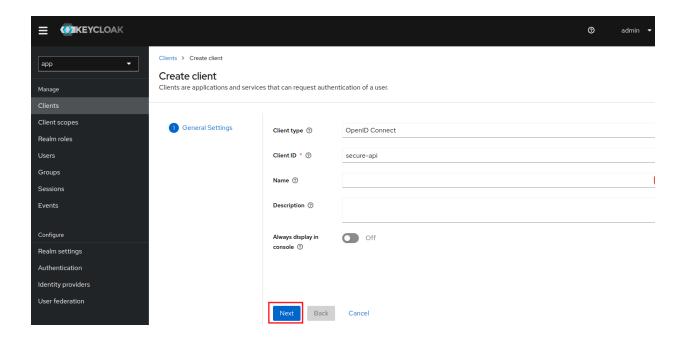
3) After the realm has been created with success, click on the Tokens tab and change the Access Token Lifespan to 1 day.



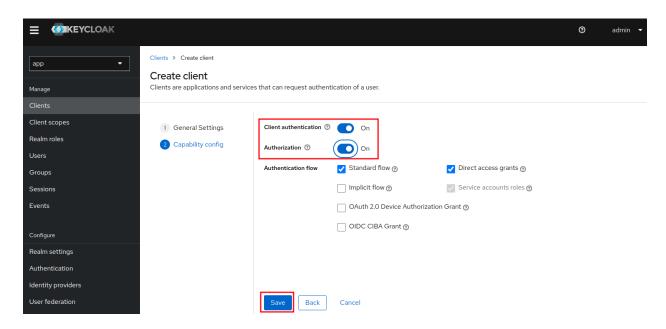
4) Click on the Clients menu and after that, click the Create client button. PS: Make sure all steps are executed inside **app** Realm.



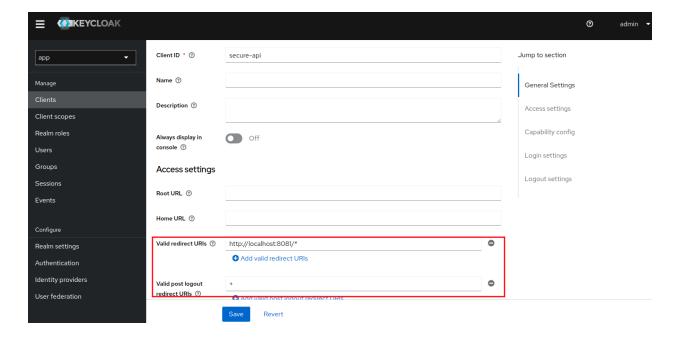
5) Fill the name with the client as **secure-api** and click the next button.



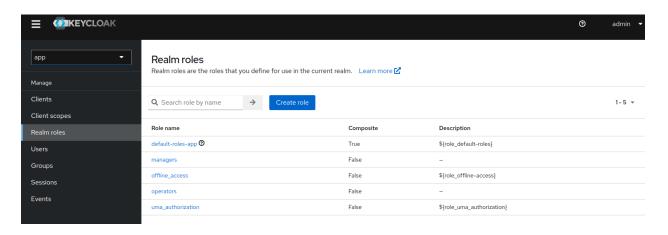
6) Enable Client authentication and Authorization. Click Save button.



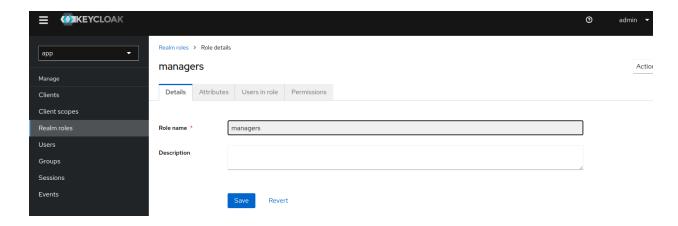
- 7) Go to the Clients menu again and click on the client you just created. Change the options to match the configuration below and click the Save button.
 - Valid redirect URLs to: http://localhost:8081/*.
 - Valid post logout redirect URIs to: +.



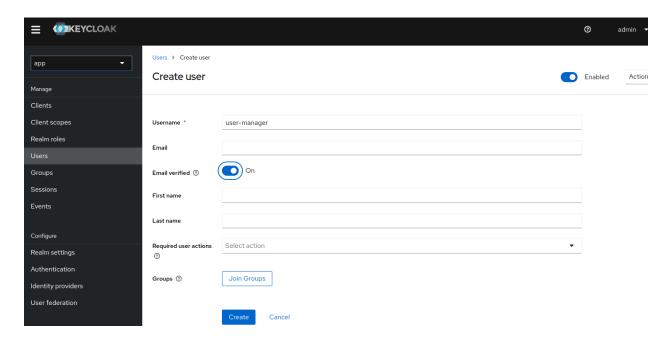
8) Click on the Realm Roles menu, click Create role button.



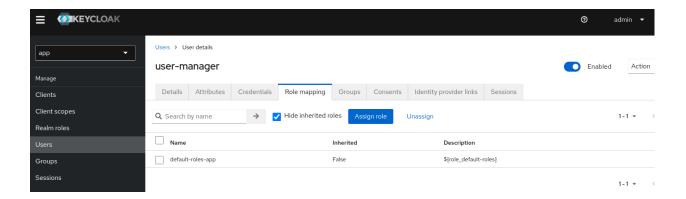
9) Fill the Role name input with **managers** and click the Save button.



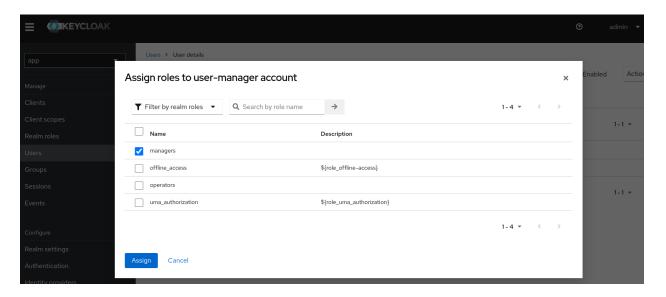
- 10) Repeat the last two steps to create another role called **operators**.
- 11) Go to the Users menu, click on Add user button, fill in the Username field **user-manager** and click the Create button. Email verified is On but is not necessary for this example:



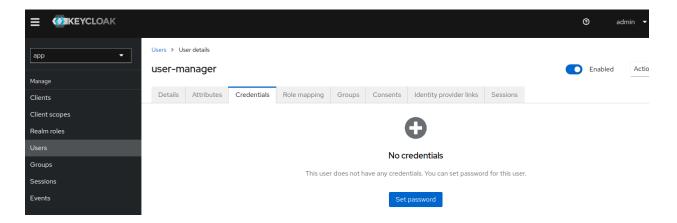
12) Go to the Role Mappings tab and click the Assign role button.



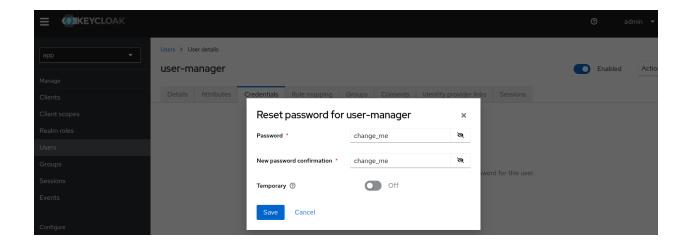
13) Select managers and click Assign button again.



14) Go to the Credentials tab and click Set password button.



15) Create a password, uncheck Temporary and click the Save button.



13. Repeat from step #10 to create another new user with username **user-operator**, and make sure to use the role **operators** inside the Role Mappings.